

List of Designated Trades under the Apprentices Act, 1961

SCHEDULE – I
[See rule 3 (1) and rule 7 (1)]

Sl. No.	Designated Trades	N.C.O. Code No.	Ratio of apprentices to workers other than unskilled workers	Period of Apprenticeship Training	Relevant ITI trades/ Apprenticeship Trades	Rebate allowed in Apprenticeship Training	Essential/ Desirable Educational Qualifications
1	2	3	4	5	6	7	8
Group No.1 - Machine Shop Trades Group:							
1.	Fitter	842.10, 842.15	1:7	3 years	1. Fitter 2. Millwright Maintenance Mechanic 3. Tool and Die-Maker 4. Maintenance Mechanic (Textile Machinery) 5. Mechanic (Dairy-Maintenance) 6. Fitter Structural	2 years 1 year 1 year 1 year 1 year	Passed 10 th class Examination under 10+2 system of education or its equivalent.

					7. Boiler Attendant 8. Motor Mechanic Body Builder 9. Millwright (Rolling Mills) 10. Mechanic Mining Machinery 11. Rigger (Engineering & Chemical Industries) 12. Maintenance Mechanic (Leather Machinery)	1 year 1 year 1 year 1 year 1 year	
2.	Turner	835.15	1:7	3 years	Turner	2 years	Passed in 10 th class under 10+2 system of education or its equivalent.
3.	Machinist	835.10	1:7	3 years	Machinist	2 years	Passed in 10 th class under 10+2 system of education or its equivalent.
4.	Machinist (Grinder)	836.10, 836.25 836.30, 836.35 836.40, 836.55	1:7	3 years	1. Machinist (Grinder) 2. Turner 3. Machinist	2 years 1 year 1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.

Group No. 2 - Foundry Trades Group:							
1.	Pattern Maker	819.20	1:7	3 years	Pattern Maker	2 years	Passed 8 th class Examination under 10+2 system of education or its equivalent.
2.	Foundryman	726.10	1:7	3 years	1. Foundryman 2. Moulder	1 year 1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
Group No. 3 - Metal Working Trades Group:							
1.	Forger and Heat Treater	723.80, 726.90 831.10, 831.30 831.50	1:7	3 years	Forger and Heat Treater	1 year	Passed 10 th class examination under 10+2 system or its equivalent.
2.	Sheet Metal Worker	837.10	1:7	3 years	Sheet Metal Worker	1 year	Passed 10 th class examination under 10+2 system or its equivalent.
3.	Welder (Gas and Electric)	872.10,872.20	1:7	2 years	Welder (Gas and Electric)	1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
4.	Motor Vehicle Body Builder	815.10	1:7	2 years	1. Forger and Heat Treater	1 year	Passed 10 th class examination

					2. Sheet Metal Worker 3. Welder (Gas and Arc).	1 year 1 year	under 10+2 system of education or its equivalent.
Group No.4 - Electrical Trades Group:							
1.	Electrician	851.10,851.30	1:7	3 years	Electrician	2 years	Passed 10 th class examination under 10+2 system with Science as one of the subject or its equivalent.
2.	Lineman	857.10	1:7	3 years	1. Wireman 2. Electrician	1 year 1 year	Passed 8 th class examination under 10+2 system of education or its equivalent.
3.	Wireman	855.10	1:7	3 years	Wireman	2 years	Passed 8 th class examination under 10+2 system with Science as one of the subject or its equivalent.
4.	Auto Electrician	855.30	1:7	2 years	1. Mechanic (Motor Vehicle) 2. Electrician 3. Electronics Mechanic	1 year 1 year 1 year	Passed 10 th class examination under 10+2 system with Science as one of the subject or its equivalent.

5.	Electrician Aircraft	855.20	1:10	4 years	Electrician	2 years	Passed 10 th class examination under 10+2 system of education with Science and Math as subject or its equivalent.
6.	Winder (Armature)	859.50	1:7	3 years	Electrician	2 years	Passed 10 th class examination under 10+2 system of education with Science and Math as a subject or its equivalent.
7.	Cable Jointer	857.30	1:7	3 years	Wireman	1 year	Passed 10 th class examination under 10+2 system with Science as a subject or its equivalent.
8.	Electrician (Mines)	851.15	1:7	3 years	Electrician	2 years	Passed 10 th class examination under 10+2 system of education with Science (Physics and Chemistry) as one of subject or its equivalent.

9.	Electroplater	728.10	1:7	3 years	Electroplater	2 years	Passed 10 th class examination under 10+2 system of education or its equivalent.
Group No. 5 - Building and Furniture Trades Group							
1.	Carpenter	811.10,811.20	1:7	3 years	Carpenter	1 year	Passed 10 th class examination under 10+2 system of education with Science as one of the subjects or its equivalent.
2.	Plumber	871.10	1:2	3 years	Plumber	1 year	Passed 8 th class examination under 10+2 system of education or its equivalent.
3.	Mason (Building Constructor)	951.20	1:7	2 years	Building Constructor	1 year	Passed 8 th class examination under 10+2 system of education or its equivalent.
4.	Furniture and Cabinet Maker	812.10, 812.20	1:7	3 years	Carpenter	1 year	Passed 8 th class examination under 10+2 system of education with science as

							subject or its equivalent. 'Desirable':- Passed in 10 th class examination under 10+2 system of education with Science as one of the subject or its equivalent.
5.	Sports Goods Maker (Wood)	819.70	1:5	2 years	Sports Goods Maker (Wood)	1 year	Passed 8 th class examination under 10+2 system of education or its equivalent.
Group No. 6 – Maintenance Trades Group:							
1.	Mechanic Machine Tool Maintenance	845.50	1:7	3 years	1. Millwright Maintenance Mechanic 2. Mechanic Machine Tool Maintenance	2 years 3 years	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent.
2.	Mechanic Maintenance	845.63	1:7	3 years	Fitter	1 year	Passed 10 th class examination

	(Textile Machinery)						under 10+2 system of education with Science (Physics and Chemistry) as subjects or its equivalent.
3.	Mechanic Maintenance (Chemical Plant)	845.53	1:7	3 years	Mechanic Maintenance (Chemical Plant)	2 years	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent
4.	Mechanic (Dairy Maintenance)	845.55	1:7	3 years	1. Fitter 2. Tool & Die Maker 3. Refrigeration and Air-conditioning Mechanic	1 year 1 year 1 year	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent
5.	Mechanic Sewing Machine	945.82	1:4	1 year	Fitter	6 months	Passed 10 th class examination under 10+2 system of education or its equivalent
6.	Mechanic(Mining Machinery)	845.60	1:10	3 years	Fitter	1 year	Passed 10 th class examination

							under 10+2 system of education with Science (Physics and Chemistry) as subjects or its equivalent.
7.	Material Handling Equipment Mechanic-cum-Operator	973.35, 973.40 973.70, 974.45 974.55, 979.20 979.90	1:3	3 years (including 2 years basic training)	Millwright Maintenance Mechanic	2 years	Passed 10 th class examination of 10+2 system of education or its equivalent.
Group No. 7 - Precision Machining Trades Group							
1.	Tool and Die Maker (Die and Moulds)	833.10, 833.40	1:2	4 years	1. Tool and Die Maker (Die and Moulds) 2. Fitter 3. Turner 4. Machinist 5. Machinist (Grinder) 6. Tool and Die Maker (Press Tools, Jigs and Fixtures) 7. Tool and Die Maker	3 years 1 year 1 year 1 year 1 year 18 months 2 years	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent.

2.	Tool and Die Maker (Press Tools, Jigs and Fixture)	833.10, 833.41	1:2	4 years	<ul style="list-style-type: none"> 1. Tool and Die Maker (Press Tools, Jigs and Fixtures) 2. Fitter 3. Turner 4. Machinist 5. Machinist (Grinder) 6. Tool and Die Maker 7. Tool and Die Maker (Die and Moulds) 	<ul style="list-style-type: none"> 3 years 1 year 1 year 1 year 1 year 2 years 18 months 	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent
3.	Plastic Mould-Maker	833.40, 901.30	1:7	4 years	<ul style="list-style-type: none"> 1. Tool and Die-Maker 2. Fitter 	<ul style="list-style-type: none"> 3 years 1 year 	Passed 10 th class examination under 10+2 system of education with Science and Math as subjects or its equivalent.
Group No. 8 - Instrument Trades Group							
1.	Instrument Mechanic	841.15	1:3	3 years	Instrument Mechanic	2 years	Passed 10 th class examination

							under 10+2 system of education with Science as one of the subjects or its equivalent.
2.	Mechanic (Instrument Aircraft)	841.15	1:10	4 years	Instrument Mechanic	2 years	Passed 10 th class examination under 10+2 system of education with Science and Mathematics as subjects or its equivalent
3.	Mechanic Watch and Clock	841.10	1:3	3 years	Mechanic Watch and Clock	2 years	Passed 10 th class examination under 10+2 system or its equivalent.
Group No 9 – Refrigeration and Air-Conditioning Trade Group							
1.	Refrigeration and Air-Conditioning Mechanic	845.70	1:3	3 years	Refrigeration & Air-Conditioning Mechanic	2 years	Passed 10 th class examination with Science (Physics and Chemistry) and Mathematics under 10+2 system of education or its equivalent.

Group No. 10 - Heat Engines Trades Group							
1.	Mechanic (Motor Vehicle)	753.27	1:4	3 years	Mechanic (Motor Vehicle)	2 years	Passed 10 th class examination under 10+2 system of education or its equivalent.
2.	Mechanic(Diesel)	845.13	1:4	3 years	Mechanic (Diesel)	1 year	Passed 10 th class examination or its equivalent.
3.	Tractor Mechanic	845.20	1:3	3 years	1. Tractor Mechanic 2. Farm Mechanic Machinery 3. Mechanic Agricultural Machinery	1 year 1 year 1 year	Passed 10 th class examination or its equivalent. Desirable : Passed 10 th class examination under 10+2 system with Science (Physics & Chemistry) as one of the subjects or its equivalent.
4.	Mechanic (Earth Moving Machinery)	845.23	1:1	4 years	1. Mechanic (Tractor) 2. Mechanic (Agricultural Machinery)	1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
5.	Mechanic (Marine Diesel)	845.14	1:5	3 years	Mechanic Diesel	1 year	Passed 8 th class examination or

							its equivalent.
6.	Driver-cum-Fitter	843.50, 986.55	1:15	3 years	Mechanic (Motor Vehicle)	1 year	Essential – Passed 2 standard below SSLC or passed 8 th class examination or its equivalent under 10+2 system of education Desirable - Passed 10 th class examination under 10+2 system of education or its equivalent.
7.	Auto Mechanic (Two Wheeler/ Three Wheeler)	843.20, 843.30 843.50, 843.60	1:4	2 years	Mechanic (Motor Vehicle)	1 year	Passed 8 th class examination or its equivalent.
8.	Construction Machinery Mechanic-cum-Operator	843.30, 843.40 843.50, 973.30 973.35, 973.50 973.55, 973.65 973.70, 974.10 974.17, 974.45 974.70	1:1	3 years (including 2 years Basic Training)	Mechanic (Motor Vehicle)	2 years	Passed 10 th class examination of 10+2 system of education or its equivalent.

Group No. 11- Draughtsmen and Survey Trades Group							
1.	Draughtsman (Civil)	030.20	1:10	3 years	Draughtsman (Civil)	2 years	Passed 10 th class examination under 10+2 system with Science & Mathematics as subjects.
2.	Draughtsman (Mechanical)	030.40	1:10	3 years	Draughtsman (Mechanical)	2 years	Passed 10 th class examination under 10+2 system with Science and Mathematics as subjects.
3.	Surveyor	028.10, 037.10 037.20	1:10	3 years	Surveyor	2 years	Passed 10 th class examination under 10+2 system with Science and Mathematics as subjects.
Group No. 12 – Construction Trade Group:							
1.	Fitter Structural	874.65	1:7	3 years	Fitter	1 year	Passed 10 th class examination under 10+2 system with Science and Mathematics as subjects.

Group No. 13 – Power Plant Trades Group:							
1.	Boiler Attendant	962.20	1:2	3 years	Fitter	6 months	Passed 10 th class examination under 10+2 system with Physics, Chemistry and Mathematics as subjects.
2.	Steam Turbine cum Auxiliary Plant Operator	961.30	1:4	3 years	----	----	Passed 10 th class examination under 10+2 system of education or its equivalent.
3.	Switch Board Attendant	961.50	1:4	3 year	Steam Turbine cum Auxiliary Plant Operator	6 months	Passed 10 th class examination under 10+2 system of education with Science or its equivalent.
Group No. 14 - Printing Group of Trades:							
(i) Type Setting Group:							
1.	Lino Operator	922.10	1:15	3 years	Hand Compositor	1 year	Passed 10 th class examination under 10+2 system of education with proficiency in English and any regional

							language or its equivalent.
2.	Mono Keyboard Operator	922.20	1:15	3 years	Hand Compositor	1 year	Passed 10 th class examination under 10+2 system of education with proficiency in English and any regional language or its equivalent.
3.	Mono Castor Operator	922.30	1:15	2 years	Hand Compositor	1 year	Passed 10 th class examination under 10+2 system of education with proficiency in English and any regional language or its equivalent.
(ii) Photo Mechanic Group:							
1.	Process Cameraman	926.10	1:5	3 years	---	---	Passed 10 th class examination with Physics and Chemistry as subject under 10+2 system of education or its equivalent.

2.	Retoucher Lithographic	925.10	1:4	3 years	---	---	Passed 10 th class examination with Physics and Chemistry as subject under 10+2 system of education or its equivalent.
3.	Engraver	926.50	1:7	3 years	---	---	Passed 10 th class examination with Physics and Chemistry as subject under 10+2 system of education or its equivalent.
(iii) Binding Group:							
1.	Book Binder	927.10	1:5	2 years	Book Binder	1 year	Passed 8 th class examination under 10+2 system of education or its equivalent.
(iv) Litho Offset Group:							
1.	Plate Maker (Lithographic)	926.40	1:3	2 years	---	---	Passed 10 th class examination under 10+2 system of education with

								Physics and Chemistry as subject or its equivalent.
2.	Offset Machine Minder	923.50, 923.60	1:2	3 years	---	---	---	Passed 10 th class examination under 10+2 system of education with Physics and Chemistry as subject or its equivalent.
Group No. 15 – Hotel and Catering Trades Group:								
1.	Apprentices Food Production (General)	520.20	1:5	3 years	1. Cook (Vegetarian) 3. Craftsman Food Production (General) 3. Craftsman Food Production (Vegetarian)	1 year 1 year 1 year		Passed Matriculation or its equivalent or 10 th class pass under 10+2 system of education.
2.	Apprentice Food Production (Vegetarian)	520.20	1:5	2 years	Craftsman Food Production (Vegetarian)	1 year		Passed Matriculation or its equivalent or 10 th class pass under 10+2 system of education.
3.	Steward	521.40	1:5	2 years	Steward	1 year		Passed in Matriculation

							examination or its equivalent or 10 th class pass under 10+2 system of education.
4.	Baker and Confectioner	777.10	1:5	2 years	Baker and Confectioner	6 months	Passed 10 th class examination under 10+2 system of education or its equivalent.
5.	House Keeper	510.10	1:5	1 ½ years	—	—	Passed matriculate or 10 th class examination under 10+2 system of education.
6.	Hotel Clerk/ Receptionist/ Front Office Assistant	352.10	1:5	2 years	—	—	Passed in Matriculation class examination under 10+2 system of education or its equivalent.
7.	Fruit and Vegetable Processor	775.90	1:10	2 years	Preservation of Fruit and Vegetables	1 year	Passed 10 th class examination under 10+2 system of education with

							Science as one of the subjects or its equivalent.
Group No. 16- Textile Trades Group							
1	Weaver	755.50	1:50	6 months	---	---	Passed 8 th class under 10+2+3 system of education or two class below matriculation examination or its equivalent. Desirable- Passed 10 th class examination under 10+2 system of education or its equivalent.
2	Doffer-cum-Piecer	752.65,752.40	1:50	6 months	---	---	Passed 8 th class or its equivalent.
3.	Tenter (Drawing Speed/Fly Frames)	752.10, 752.15, 752.20	1:25	6 months	---	---	Passed 8 th class or its equivalent.
4	Winder (Textile)	752.70	1:50	6 months	---	---	Passed 8 th class or its equivalent.
5	Knitter (Hosiery)	757.10, 757.15, 757.20, 757.25, 757.30	1:4	1 ½ years	---	---	Passed 10 th class examination under 10+2 system of education or its equivalent.
6	Printing Textile	758.30, 758.32,	1:10	6 months	---	---	Passed 8 th class

		758.34					examination under 10+2 system of education.
7	Creel Boy-cum-Warper	753.40, 753.50	1:5	6 months	---	---	Passed matriculation or 10 th class examination under 10+2 system of education or its equivalent.
Group No. 17- Mining Trades Group							
1	Sirdar (Colliery)	710.50	1:4	3 years	---	---	Passed 10 th class examination under 10+2 system of education with Science (Physics and Chemistry) as subject or its equivalent
2	Shotfirer/Blaster (Mines)	714.10	1:7	2 years	---	---	Passed 10 th class examination under 10+2 system of education or its equivalent.
3	Mate (Mines)	710.40, 715.90	1:10	3 years	---	---	Passed 10 th class under 10+2 system of education with

							Science (Physics and Chemistry) as one of the subjects or its equivalent.
Group No. 18 –Chemical Trades Group							
1	Attendant Operator (Chemical Plant)	733.10, 722.10, 733.15, 733.20, 733.40, 733.45, 733.50, 733.70, 733.90, 734.10, 734.15, 734.25, 739.20, 739.55, 741.15, 741.20, 74130, 741.10, 74160, 741.70, 742.10, 742.20, 742.30, 74240, 742.60, 742.90, 743.10, 743.30, 743.40, 744.10, 744.20, 744.30, 744.40, 744.50, 745.10, 749.30, 749.34, 749.42, 773.50, 749.62, 749.64 , 749.68, 749.72 , 749.74, 749.76, 749.80, 749.82, 749.84, 749.86, 749.88, 773.13, 773.23, 773.40, 773.40,	1:10	3 years (for 10 th pass) 1 & ½ years (for B.Sc. pass)	Attendant Operator (Chemical .Plant)	2 years (for 10 th pass) 6 months (for B.Sc. pass)	Passed 10 th under 10+2 system of education with Science (Physics and Chemistry) and Math as subjects or its equivalent. Passed B.Sc. with Physics and Chemistry as subjects.

		773.50, 773.57, 773.60, 773.65, 773.80, 775.30, 775.40, 775.55, 775.65, 776.20, 776.50, 893.10, 893.20, 893.33, 902.10, 902.20, 902.30, 902.50, 903.10, 903.20					
2.	Instrument Mechanic (Chemical Plant)	841.20, 841.70 851.20	1:7	3 years (for 10 th Pass) 1 & ½ years (for B.Sc Pass)	Instrument Mechanic (Chemical Plant)	2 years (for 10 th pass) 6 months (for B.Sc. Pass)	Passed 10 th class under 10+2 system of education with Science (Physics &Chemistry) and Maths as subjects or its equivalent. Passed B.Sc. with Physics and Chemistry as subjects.

3.	Laboratory Assistant (Chemical Plant)	010.30, 034.10 034.30, 034.50 035.10, 083.10	1:4	3 years (for 10 th Pass) 1 & ½ years (for B.Sc Pass)	Laboratory Assistant (Chemical Plant)	2 years (for 10 th pass) 6 months (for B.Sc. Pass)	Passed 10 th class under 10+2 system of education with Science (Physics & Chemistry) and Maths as subjects or its equivalent. Passed B.Sc. with Physics and Chemistry as subjects.
4.	Fibre Reinforced Plastic Processor	901.15, 901.20, 901.25, 901.30, 901.35, 901.40, 901.45, 901.50, 901.55	1:5	2 years	Plastic Process Operator	1 year	Passed 10th class examination under 10+2 system of education or its equivalent.
5.	Plastic Processing Operator	901.20, 901.25, 901.30, 901.35, 901.40, 901.45, 901.50, 901.55 901.60, 901.65	1:5	2 years	Plastic Process Operator	1 year	Passed 10th class examination under 10+2 system of education or its equivalent.
Group No. 19 – Cutting and Tailoring Trades Group							
1.	Designer and Master Cutter	794.40, 794.60	1:5	2 years	Cutting and Tailoring	1 year	Passed 10th class examination under 10+2

							system of education or its equivalent
2.	Tailor (Men)	791.30, 791.40 791.50	1:4	1 & ½ years	Cutting and Tailoring	1 year	Passed 8 th class examination or its equivalent.
3.	Tailor (Women)	791.20	1:4	1 & ½ years	Cutting and Tailoring	1 year	Passed 8 th class examination or its equivalent.
4.	Tailor (General)	791.10, 791.90	1:5	2 years	Cutting and Tailoring	1 year	Passed 8 th class examination or its equivalent.
5.	Dress Maker	781.20	1:7	2 years (including one year Basic Training)	1. Dress Making 2. Cutting & Tailoring	1 year 1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
6.	Embroidery & Needle Worker	795.40	1:7	2 years (including one year Basic Training)	Embroidery & Needle Work	1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
Group No. 20 – Agriculture Trades Group							
1.	Mechanic (Agriculture Machinery)	345.20	1:7	3 years	1. Farm Mechanic 2. Tractor Mechanic	2 years 1 year	Passed 10 th class Examination under 10+2 system of education or its

							equivalent. Desirable – Passed 10 th class examination with Science(Physics & Chemistry) as one of the subjects.
2.	Horticulture Assistant	053.20	1:7	2 years	---	---	Passed 10th class Examination under 10+2 system or its equivalent.
3.	Stockman (Dairy)	082.10, 082.20	1:7	2 years	---	---	Passed 10th class Examination under 10+2 system of education with Science or its equivalent.
4.	Attendant Operator (Dairy)	776.10, 776.20 776.30, 776.40 776.50, 776.60 776.70, 776.90	1:7	3 years	---	---	Passed 10th class Examination under 10+2 system of education with Science and Mathematics or its equivalent.

5.	Pump Operator Cum Mechanic	845.57	1:4	2 years	1. Pump Mechanic 2. Pump Operator Cum Mechanic	1 year 1 year	Passed 10th class under 10+2 system of education with Science or its equivalent.
Group No. 21 – Leather Crafts Trades Group							
1.	Sports Goods Maker (Leather)	809.90	1:5	2 years	Sports Goods Maker (Leather)	1 year	Passed 10th class examination under 10+2 system of education or its equivalent.
2.	Leather Goods Maker	809.10, 809.20 809.30, 809.40	1:7	2 years	Manufacturer of suitcase and other leather Goods	1 year	Passed 8 th class examination under 10+2 system or 2 class below Matriculation examination or its equivalent.
3.	Footwear Maker	801.10	1:4	2 years	Manufacture of Footwear	1 year	Passed in 8 th examination under 10+2+3 or 2 class below Matriculation examination or its equivalent.

4.	Finished Leather Maker	761.00	1:3	2 years	---	---	Passed in 8 th examination under 10+2+3 or 2 class below Matriculation examination or its equivalent.
5.	Maintenance Mechanic for Leather Machinery	845.50	1:3	3 years	Fitter	1 year	Passed 10 th under 10+2 system (Physics and Chemistry) and Math as subjects or its equivalent.
6.	Upholsterer	796.10	1:5	2 years	1. Upholsterer 2. Leather Goods Maker	1 year 1 year	Pass in 8 th class examination under 10+2 system of education or 2 class below Matriculation examination or its equivalent.
Group No. 22 – Ship Building Trades Group							
1.	Shipwright(Steel)	816.20	1:7	3 years	Fitter	1 year	Passed 10 th class under 10+2 system of education or equivalent. Desirable – Passed SSLC

							with Science (Physics and Chemistry) and Math or its equivalent or passed 10 th class examination under 10+2 system with Science & Mathematics as subjects.
2.	Pipe Fitter	871.20	1:7	3 years	Plumber	1 year	Passed 10 th class under 10+2 system with Science (Physics and Chemistry) & Mathematics or its equivalent.
3.	Rigger	972.10	1:7	2 years			Pass the 8 th examination under 10+2 system or its equivalent. Desirable – Passed 8 th class examination with Science and Math as subject under 10+2+3 system of

							education or two standard below matriculation.
4.	Gas Cutter	872.40	1:7	2 years	Welder (Gas and Electric)	1 year	Pass the 8 th examination under 10+2 system of education or its equivalent. Desirable - Passed 8 th class examination with Science and Math as subject under 10+2+3 system of education or two standard below matriculation.
5.	Shipwright (Wood)	816.70	1:7	3 years	Carpenter	1 year	Essential - Passed 10th under examination under 10+2 system of education or its equivalent. Desirable - Passed 10th under 10+2 with Science (Physics and

							Chemistry) and Mathematics or its equivalent.
Group No. 23 – Electronics Trades Group							
1.	Mechanic Radio and Radar Aircraft	852.30, 854.50 854.60	1:10	4 years	1. Mechanic Radio and T.V. 2. Electronics Mechanic	2 years 2 years	Passed 10 th class examination under 10+2 system with Science (Physics and Chemistry) and Mathematics or its equivalent.
2.	Electronics Mechanic	852.20	1:5	3 years	1. Electronics Mechanic 2. Mechanic (Radio and T.V.)	2 years 2 years	Passed 10 th class examination under 10+2 system with Science (Physics and Chemistry) and Mathematics or its equivalent.
3.	Mechanic Television (Video)	854.20	1:7	3 years	1. Electronics Mechanic 2. Mechanic (Radio and T.V.)	2 years 2 years	Passed Matriculation under 10+2 system with Mathematics and Science or its equivalent.

Group No. 24 – Photography Trade Group

1.	Photographer	173.10	1:4	2 years	Photographer	1 year	Passed 10 th class under 10+2 system with Science (Physics and Chemistry) as one of the subjects or its equivalent.
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Group No. 25 – Iron and Steel Trades Group

1.	Brick Layer (Refractory)	951.30	1:10	3 years	Mason (Building Constructor)	1 year	Passed 10th under 10+2 system with Science (Physics and Chemistry) as one of the subjects or its equivalent.
2.	Furnace Operator (Steel Industry)	721.55, 721.60	1:15	2 years			Passed 10th under 10+2 system with Science (Physics and Chemistry) and Mathematics or its equivalent.
3.	Steel Melting Hand	723.15, 723.20, 723.30	1:15	2 years			Passed 10th under 10+2 system with Science (

							Physics and Chemistry) and Mathematics or its equivalent.
4.	Crane Operator (Overhead Steel Industry)	973.45	1:15	2 years			Passed 10th under 10+2 system with Science (Physics and Chemistry) and Mathematics or its equivalent.
Group No. 26 – Beautician Trades Group							
1.	Beautician	560.30	1:3	2 years			<p>Passed Matriculation examination or its equivalent or 10th class examination under 10+2 system with Biology as one of the subjects.</p> <p>Desirable – Passed Higher Secondary or Pre-University Course or plus 2 of 10+2 system with Biology as</p>

							one of the subjects.
2.	Hair Dresser	560.10, 560.20	1:2	2 years			<p>Passed Matriculation examination or its equivalent or 10th class examination under 10+2 system with Biology as one of the subjects.</p> <p>Desirable – Passed Higher Secondary or Pre-University Course or plus 2 of 10+2 system with Biology as one of the subjects.</p>
3.	Health and Slimming Assistant	089.50	1:3	2 years			<p>Passed Matriculation examination or its equivalent or 10th class examination under 10+2 system with Biology as one</p>

							of the subjects. Desirable – Passed Higher Secondary or Pre-University Course or plus 2 of 10+2 system with Biology as one of the subjects.
4.	Hair and Skin Carer	560.10, 560.30	1:10	2 years	Hair and Skin Carer	1 year	Passed Matriculation examination or its equivalent or 10th class examination under 10+2 system with Biology as one of the subjects. Desirable – Passed Higher Secondary or Pre-University Course or plus 2 of 10+2 system with Biology as one of the subjects.

Group No. 27 – Glass and Ceramic Trades Group

1.	Ceramic Moulder	892.25	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.
2.	Ceramic Caster	891.20	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.
3.	Ceramic Kiln Operator	893.30	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.
4.	Ceramic Press Operator	892.60	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.
5	Ceramic Decorator	895.30	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.
6.	Moulder (Refractory)	892.65	1:4	2 years			Passed 8 th class of 10+2 system of education or 2 standard below or its equivalent.

7.	Enamel Glazer	895.50	1:4	2 years			Passed 10 th class examination under 10+2 system with Science as subject or its equivalent.
8.	Insulator Maker/ Machine Operator (Ceramic)	899.44, 899.45	1:4	3 years			Passed 10 th class under 10+2 system of education with Science or its equivalent.
9.	Optical Worker	891.48	1:4	3 years	1. Machinist 2. Millwright Maintenance Mechanic 3. Turner 4. Fitter 5. Machinist(Grinder)	1 year 1 year 1 year 1 year 1 year	Passed 10 th class examination under 10+2 system of education or its equivalent.
Group No. 28 – Painting Trades Group							
1.	Painter (General)	932.10	1:7	3 years	Painter (General)	2 years	Passed 8 th class or its equivalent.
2.	Painter (Marine)	931.20	1:7	2 years	Painter (General)	1 year	Passed 8 th class examination under 10+2 system preferably with

							Math and Science or two standard below.
Group No. 29 – Computer Trades Group							
1.	Data Preparation & Computer Software	103.10, 103.20	1:5	2 years	Data Preparation & Computer Software	1 year	Passed 12 th class examination under 10+2 system of education with Science/Commerce as subjects or its equivalent. (Other things being equal, preference will be given to candidates with higher qualification)
2.	Desk Publishing Operator Top	922.65	1:4	2 years	Desk Top Publishing Operator	1 year	Essential – (i) Passed class XII under 10+2 system. (ii) Typing speed of 30 words per minute in English. Desirable - Typing speed of 30 words per minute in any one of the languages

							specified in the Eighth Schedule to the Constitution of India.
3.	Programming and Systems Administration Assistant	103.70, 103.80	1:5	1 year	---	---	National Trade Certificate issued by National Council for Vocational Training in "Computer Operator and Programming Assistant"
Group No. 30 – Hi-Tech Trades Group							
1.	Advanced Attendant Operator (Process)	730.20, 740.10, 740.90, 900.10, 740.20, 890.20, 770.90, 730.90, 770.40	1:7	1 & ½ years			Passed B.Sc with Physics and Chemistry as compulsory and Mathematics as desirable subject.
2.	Operator Cum Mechanic Pollution Control Equipment.	039.10, 039.90	1:5	2 years			Passed Higher Secondary Examination with Physics, Chemistry and Biology under 10+2 system of Education or its equivalent.

3.	Mechanic Medical Equipment for Hospitals and Occupational Health Centre.	086.10, 088.10, 089.90, 090.90	1:5	2 years			Passed Higher Secondary examination under 10+2 system of education with Physics, Chemistry and Biology
Group No. 31- Multi Skill Trades Group							
1	Mechanic Industrial Electronics	852.10, 852.20	1:7	3 years	-	-	Passed 10+2 with Physics, Chemistry and Mathematics
2	Mechanic Advanced Machine Tool Maintenance.	845.10, 845.13 845.16, 845.20 845.23, 845.26 845.30, 845.35 845.37, 845.40 845.43, 845.47 845.50, 845.53 845.55, 845.57 845.60, 845.63 845.65, 845.70	1:5	3 years	-	-	Passed 10+2 with Physics, Chemistry and Mathematics
3.	Operator Advanced Machine Tool	835.10, 835.15 835.25, 835.30 835.40, 835.45 835.90	1:7	3 years	-		Passed 10+2 with Physics, Chemistry and Mathematics.

4.	Power Electrician	851.10, 851.20 851.30	1:10	4 years	Electrician	2 years	Passed 10 th class with Science as one of the subject or its equivalent.
5.	Operator Cum Mechanic (Power Plant)	842.10, 842.15 842.20, 842.65	1:10	4 years (combined strength including Basic Training of Mechanic and Operator of Power Plant)	Millwright Maintenance Mechanic & or Fitter	2 years	Passed 10 th class examination under 10+2 system of education with Science and Math.
Group No. 32- Informal Sector Trades Group							
1.	Jewellery and Precious Metal Worker	889.90	1:3	1 year (including one week Basic Trg.)	----	----	Passed 8 th Class Examination under 10+2 System of education or its equivalent.
2.	Gardener	652.10	1:2	1 year (including one week Basic Trg.)	----	----	Passed 10 th Class Examination under 10+2 System of education or its equivalent.

3.	Call Centre Assistant	599.90	1:2	6 months (including one week Basic Trg.)	----	----	Passed 10+2 examination or Passed National Trade Certificate issued by National Council for Vocational Council in Electronics Communication System, Computer Operator and Programming Assistant, Information Technology and Electronics System Maintenance, Radio and Television, Instrument Mechanic.
4.	Barber/Hair Cutter/Dresser	560.20	1:3	6 months (including one week Basic Trg.)	----	----	Passed 8 th class examination

5.	Battery Repairer	859.65	1:2	1 year (including one week Basic Trg.)	----	----	Passed 10 th class examination under 10+2 system of education or its equivalent.
6.	Tyre Repairer	903.60	1:3	6 months (including one week Basic Trg.)	----	----	Passed 8 th class examination
7.	Screen Printing	929.50	1:3	6 months (including one week Basic Trg.)	----	----	Passed 10 th class examination under 10+2 system of education or its equivalent.
8.	Beautician Assistant	560.30	1:3	6 months (including one week Basic Trg.)	----	----	Passed 10 th class examination under 10+2 system of education or its equivalent.
9.	Medical Laboratory Technician (Pathology)	060.10	1:3	6 months (including one week Basic Trg.)	----	----	Passed 12 th class examination under 10+2 system of education with Physics, Chemistry and Biology

10.	Medical Laboratory Technician (Radiology)	086.10	1:3	6 months (including one week Basic Trg.)	----	----	Passed 12 th class examination under 10+2 system of education with Physics, Chemistry and Biology
11.	Medical Laboratory Technician (Cardiology and Physiology)	069.90	1:3	6 months (including one week Basic Trg.)	----	----	Passed 12 th class examination under 10+2 system of education with Physics, Chem. and Biology
12.	Pruner Tea Gardens	640.10	1:7	6 months (including one week Basic Trg.)	----	----	Passed 8 th class
13.	Cable Television Operator	861.10	1:3	6 months (including one week Basic Trg.)	----	----	Passed 10 th class examination under 10+2 system of education or its equivalent.
Group No. 33:Retail Sector Trades Group							
1.	Sales Person (Retail)	5220.35	1:6	Six months	---	---	Passed 10 th class examination under 10+2 system of education or its equivalent.

2.	Senior Sales Person (Retail)	5220.15, 5220.35	1:6	One year	Sales Person (Retail)	Six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
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Group No. 34: Glassware/Metalware Trades Group

1.	Lacquering and Powder Coating Operator	7422.60 7422.62	1:3	One year	---	---	Passed 10 th class exam. under 10+2 system of education or its equivalent.
2.	Wood Handicrafts Worker	7422.42 7422.48 7423.20	1:3	One year	---	---	Passed 10 th class examination under 10+2 system of education or its equivalent.

Group No. 35 – Centre of Excellence Trades Group:

1.	Mechanic Automobile (Advance Petrol Engine)	7233.22	1:2	Two years	Broad Based Basic Training in Automobile Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Servicing and Overhauling of Automobiles (Petrol).	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
2.	Mechanic Automobile (Advance Diesel Engine)	7233.24	1:2	Two years	Broad Based Basic Training in Automobile Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Servicing and Overhauling of Automobiles (Diesel).	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

3.	Mechanic Auto Electronics	7242.10	1:2	Two years	Broad Based Basic Training in Automobile Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Auto Electrical, Auto Electronics and Air-conditioning in Automobiles.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
4.	Mechanic (Denting, Painting and Welding)	7142.20 7213.30	1:2	Two years	Broad Based Basic Training in Automobile Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Denting(Painting and Welding).	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
5.	TIG/MIG Welder	7212.10 7212.20 7212.30 7212.65 8231.35	1:3	Two years	Broad Based Basic Training in Fabrication (Fitting & Welding) Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in TIG/MIG Welding.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
6.	Structural Welder	7212.10 7212.20 7212.30 7212.65 8231.35	1:3	Two years	Broad Based Basic Training in Fabrication (Fitting & Welding) Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Structural Welding.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

7.	Welder (Pipe and Pressure Vessels)	7212.10 7212.20 7212.30 7212.65 8231.35	1:2	Two years	Broad Based Basic Training in Fabrication (Fitting and Welding) Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Pressure Vessels and Pipe Welding.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
8.	Chemical Laboratory Assistant	3111.30	1:2	Two years	Broad Based Basic Training in Chemical Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Laboratory Assistant.	One year and six months	Passed 10 th class exam. under 10+2 system of education or its equivalent.
9.	Advance Mechanic (Instruments)	7311.10 7311.30 7241.10	1:2	Two years	Broad Based Basic Training in Chemical Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Instruments Mechanic.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

10.	CAD-CAM Operator cum Programmer	3121.20	1:2	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in CAD/CAM	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
11.	Advance Welder	7212.10 7212.20 7212.30 7212.65 8231.35	1:2	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Advanced Welding.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
12.	Jigs and Fixtures Maker	7222.30	1:2	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Manufacturing of Jigs and Fixtures.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
13.	Quality Assurance Assistant	3152.90	1:2	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Quality Engineering.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

14.	CNC Programmer cum Operator	3121.20	1: 3	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in CNC Machining.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
15.	Operator PLC System	8211.90	1:2	Two years	Broad Based Basic Training in Production and Manufacturing Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in PLC and Automation.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
16.	Mechanic (Electrical Domestic Appliances)	7233.58	1:2	Two years	Broad Based Basic Training in Electrical Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Repair and Maintenance of Domestic Appliances.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
17.	Mechanic (HT, LT Equipments and Cable Jointing)	7245.20	1:2	Two years	Broad Based Basic Training in Electrical Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Operation and Maintenance of equipments used in HT, LT Substation and	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

					Cable Jointing.		
18.	Mechanic (Electrical Power Drives)	7241.20 7242.10	1:2	Two years	Broad Based Basic Training in Electrical Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Repair and Maintenance of Electronic Test Equipment.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
19.	Mechanic (Embedded Systems and PLC)	8211.90	1:2	Two years	Broad Based Basic Training in Electronics Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Embedded Systems and PLC.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
20.	Mechanic Power Electronics (Inverters, UPS and Maintenance of Drives)	7241.10 7242.10	1:2	Two years	Broad Based Basic Training in Electronics Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Inverters, UPS, Voltage Stabilizer and Industrial Drives.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
21.	Mechanic (DTH and other Communication System)	7243.10 7244.20	1:2	Two years	Broad Based Basic Training in Electronics Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Communication System.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

22.	Mechanic (Domestic, Commercial Refrigeration and Air Conditioning Machines)	7233.50	1:2	Two years	Broad Based Basic Training in Refrigeration and Air-conditioning Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Domestic, Commercial Refrigeration and Air Conditioning.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
23.	Mechanic (Central Air conditioning Plant, Industrial cooling and Package Air conditioning)	8281.25 8169.30	1:2	Two years	Broad Based Basic Training in Refrigeration and Air-conditioning Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Central Air conditioning Plant, Industrial cooling and Package Air-conditioning.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
24.	Mechanic (Cold storage, Ice plant and Ice candy plant)	7413.50 8169.30	1:2	Two years	Broad Based Basic Training in Refrigeration and Air-conditioning Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Cold	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.

					storage, Ice plant and Ice candy plant.		
25.	Computer Aided Pattern Maker	7222.80 7422.38 7434.20 7435.10 7442.16	1:2	Two years	Broad Based Basic Training in Apparel Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Computer Aided and Pattern Making.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
26.	Fashion Designing Assistant	3471.40	1:2	Two years	Broad Based Basic Training in Apparel Sector under Centre of Excellence Scheme and Advanced module of Centre of Excellence Scheme in Fashion Designing.	One year and six months	Passed 10 th class examination under 10+2 system of education or its equivalent.
27.	Shirts and Trousers Maker	7433.25 7433.30	1:4	Two years	Broad Based Basic Training in Apparel Sector under Centre of	One year and six months	Passed 10 th class examination

					Excellence Scheme and Advanced module of Centre of Excellence Scheme in Shirts and Trousers.		under 10+2 system of education or its equivalent.”
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